

Fig. 1

(A) FBD(1,2) fused at the C-terminal of SK

SK			1	2
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(B) FBD(4,5) fused at the C-terminal of SK

SK			4	5
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(C) FBD(4,5) fused at the N-terminal of SK

4	5	SK		
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(D) FBD(4,5) fused at both the C as well as N-terminals of SK

4	5	SK			4	5
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Fig. 2

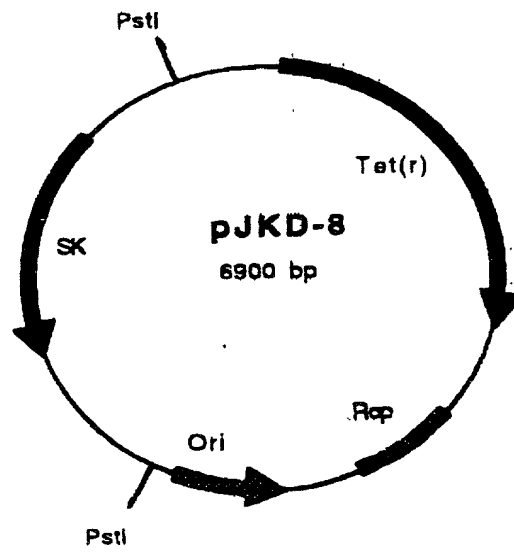


Fig. 3

1/1 31/11
ATT GCT GGA CCT GAG TGG CTG CTA GAC CGT CCA TCT GTC AAC AAC AGC CAA TTA GTT GTT
ile ala. gly. pro glu trp leu leu asp arg pro ser val asn asn ser gln leu val val
61/21 91/31
AGC GTT GCT GGT ACT GTT GAG GCG ACG AAT CAA GAC ATT AGT CIT AAA TTT TTT GAA ATC
ser val ala gly thr val glu gly thr asn gln asp ile ser leu lys phe phe glu ile
121/41 151/51
GAT CTA ACA TCA CGA CCT GCT CAT GGA GGA AAG ACA GAG CAA GGC TTA AGT CCA AAA TCA
asp leu thr ser arg pro ala his gly gly lys thr glu gln gly leu ser pro lys ser
181/61 211/71
AAA CCA TTT GCT ACT GAT AGT GCG GCG ATG TCA CAT AAA CIT GAG AAA GCT GAC TTA CTA
lys pro phe ala thr asp ser gly ala met ser his lys leu glu lys ala asp leu leu
241/81 271/91
AAG GCT ATT CAA GAA CAA TTG ATC GCT AAC GTC CAC AGT AAC GAC GAC TAC TTT GAG GTC
lys ala ile gln glu gln leu ile ala asn val his ser asn asp asp tyr phe glu val
301/101 331/111
ATT GAT TTT GCA AGC GAT GCA ACC ATT ACT GAT CGA AAC GGC AAG GTC TAC TTT GCT GAC
ile asp phe ala ser asp ala thr ile thr asp arg asn gly lys val tyr phe ala asp
361/121 391/131
AAA GAT GGT TCG GTA ACC TTG CCG ACC CAA CCT GTC CAA GAA TTT TTG CTA AGC CGA CAT
lys asp gly ser val thr leu pro thr gln pro val gln glu phe leu leu ser gly his
421/141 451/151
GTG CCG GTT AGA CCA TAT AAA GAA AAA CCA ATA CAA AAC CAA GCG AAA TCT GTT GAT GTG
val arg val arg pro tyr lys glu lys pro ile gln asn gln ala lys ser val asp val
481/161 511/171
GAA TAT ACT GTA CAG TTT ACT CCC TTA AAC CCT GAT GAC GAT TTC AGA CCA GGT CTC AAA
glu tyr thr val gln phe thr pro leu asn pro asp asp asp phe arg pro gly leu lys
541/181 571/191
GAT ACT AAG CTA TTG AAA ACA CTA GCT ATC GGT GAC ACC ATC ACA TCT CAA GAA TTA CTA
asp thr lys leu leu lys thr leu ala ile gly asp thr ile thr ser gln glu leu leu
601/201 631/211
CCT CAA CCA CAA AGC ATT TTA AAC AAA AAC CAC CCA GGC TAT ACG ATT TAT GAA CGT GAC
ala gln ala gln ser ile leu asn lys asn his pro gly tyr thr ile tyr glu arg asp
661/221 691/231
TCC TCA ATC GTC ACT CAT GAC AAT GAC ATT TTC CGT ACG ATT TTA CCA ATG GAT CAA GAG
ser ser ile val thr his asp asn asp ile phe arg thr ile leu pro met asp gln glu
721/241 751/251
TTT ACT TAC CGT GTT AAA AAT CCG GAA CAA GCT TAT AGG ATC AAT AAA AAA TCT CGT CTG
phe thr tyr arg val lys asn arg glu gln ala tyr arg ile asn lys lys ser gly leu
781/261 811/271
AAT CAA GAA ATA AAC AAC ACT GAC CTG ATC TCT GAG AAA TAT TAC GTC CIT AAA AAA GGG
asn glu glu ile asn asn thr asp leu ile ser glu lys tyr tyr val leu lys lys gly
841/281 871/291
GAA AAG CCG TAT GAT CCG TTT GAT CCG AGT CAC TTG AAA CTG TTC ACC ATC AAA TAC GTT
glu lys pro tyr asp pro phe asp arg ser his leu lys leu phe thr ile lys tyr val
901/301 931/311
GAT GTC GAT ACC AAC GAA TTG CTA AAA AGT GAG CAG CTT TTA ACA GCT AGC GAA CGT AAC
asp val asp thr asn glu leu leu lys ser glu gln leu leu thr ala ser glu arg asn
961/321 991/331
TTA GAC TTC ACA GAT TTA TAC GAT CCT CGT GAT AAG GCT AAA CTA CTC TAC AAC AAT CTC
leu asp phe arg asp leu tyr asp pro arg asp lys ala lys leu leu tyr asn asn leu
1021/341 1051/351
GAT GCT TTT GGT ATT ATG GAC TAT ACC TTA ACT GGA AAA GTA GAG GAT AAT CAC GAT GAC
asp ala phe gly ile met asp tyr thr leu thr gly lys val glu asp asn his asp asp
1081/361 1111/371
ACC AAC CGT ATC ATA ACC GTT TAT ATG GCG AAG CCA CCC GAA GGA GAG AAT GCT AGC TAT
thr asn arg ile ile thr val tyr met gly lys arg pro glu gly glu asn ala ser tyr
1141/381 1171/391
CAT TTA GGC TAT GAT AAA GAT CGT TAT ACC GAA GAA GAA CCA GAA GTT TAC ACC TAC CTG
his leu ala tyr asp lys asp arg tyr thr glu glu glu arg glu val tyr ser tyr leu
1201/401 1231/411
CCT TAT ACA GCG ACA CCT ATA CCT GAT AAC CCT AAC GAC AAA TAA
arg tyr thr gly thr pro ile pro asp asn pro asn asp lys OCH

Fig. 4

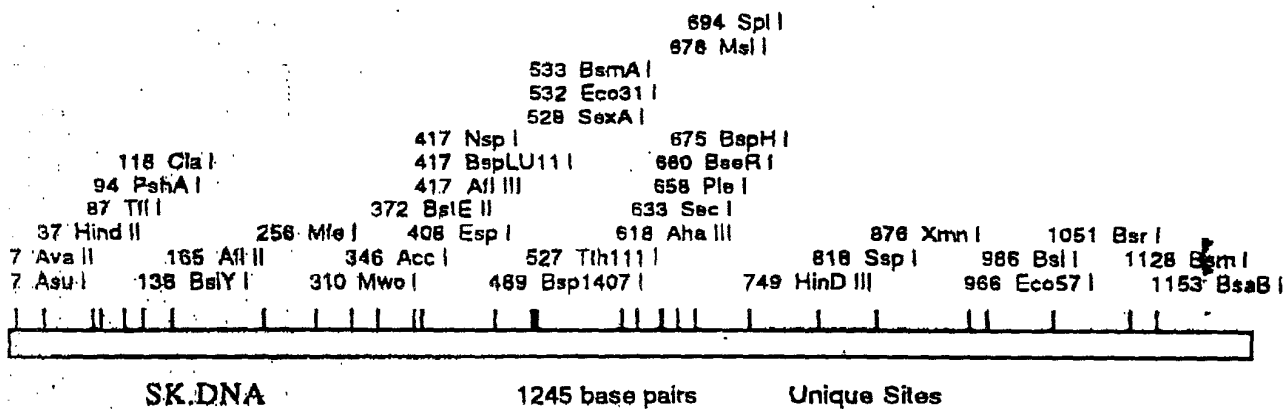


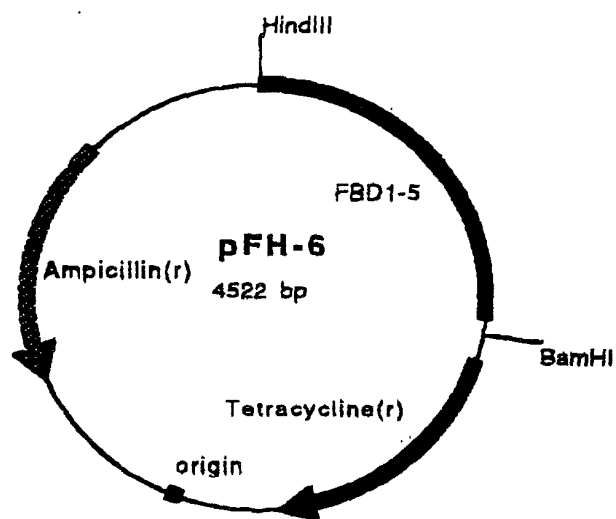
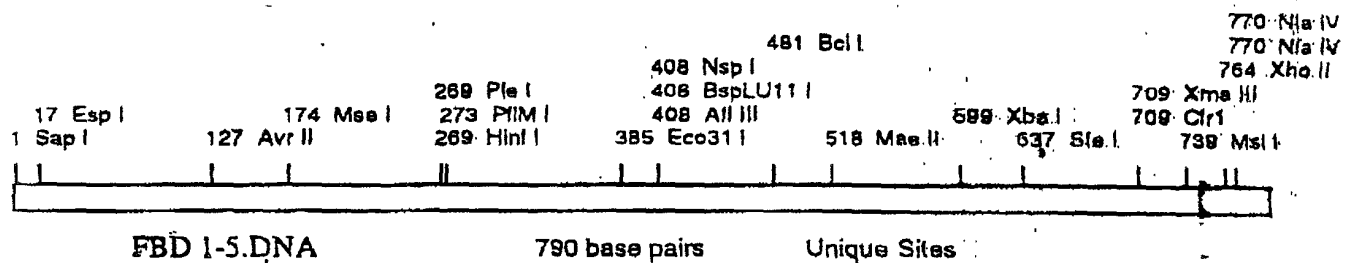
Fig. 5

Fig. 6

1/1
 CAG GCT CAG CAA ATG GTT CAG CCC CAG TCC CCG GTG GCT GTC ACT CAA AGC AAG CCC GGT
 gln ala gln gln met val gln pro gln ser pro val ala val ser gln ser lys pro gly
 61/21
 TGT TAT GAC AAT GGA AAA CAC TAT CAG ATA AAT CAA CAG TGG CAG CCG ACC TAC CTA GGT
 cys tyr asp asn gly lys his tyr gln ile asn gln gln trp glu arg thr tyr leu gly
 121/41
 AAT CTC TTG GTT TGT ACT TGT TAT GGA GGA AGC CGA GGT TTT AAC TGC GAA AGT AAA CCT
 asn val leu val cys thr cys tyr gly gly ser arg gly phe asn cys glu ser lys pro
 181/61
 GAA GCT GAA GAG ACT TGC TTT GAC AAG TAC ACT GGG AAC ACT TAC CGA GTG GGT GAC ACT
 glu ala glu glu thr cys phe asp lys tyr thr gly asn thr tyr arg val gly asp thr
 241/81
 TAT GAG CGT CCT AAA GAC TCC ATG ATC TGG GAC TGT ACC TGC ATC GGC GCT GGG CGA GCG
 tyr glu arg pro lys asp ser met ile trp asp cys thr cys ile gly ala gly arg gly
 301/101
 AGA ATA AGC TGT ACC ATC GCA AAC CCG TGC CAT GAA GCG GGT CAG TCC TAC AAG ATT GGT
 arg ile ser cys thr ile ala asn arg cys his glu gly gly gln ser tyr lys ile gly
 361/121
 GAC ACC TGG AGG AGA CCA CAT GAG ACT GGT GGT TAC ATC TTA GAG TGT GTG TGT CTT GGT
 asp thr trp arg arg pro his glu thr gly gly tyr met leu glu cys val cys leu gly
 421/141
 AAT GGA AAA GGA GAA TGG ACC TGC AAG CCC ATA GCT CAG AAG TGT TTT GAT CAT GCT GCT
 asn gly lys gly glu trp thr cys lys pro ile ala glu lys cys phe asp his ala ala
 481/161
 GGC ACT TCC TAT GTG GTC CGA GAA ACC TGG GAG AAG CCC TAC CAA GGC TGG ATG ATG GTA
 gly thr ser tyr val val gly glu thr trp glu lys pro tyr gln gly trp met met val
 541/181
 GAT TGT ACT TGC CTG GGA GAA GGC AGC GGA CCG ATC ACT TGC ACT TCT ACA AAT AGA TCC
 asp cys thr cys leu gly glu gly ser gly arg ile thr cys thr ser arg asn arg cys
 601/201
 AAC GAT CAG GAC ACA AGG ACA TCC TAT AGA ATT CGA GAC ACC TGG AGC AAG AAG GAT AAT
 asn asp gln asp thr arg thr ser tyr arg ile gly asp thr trp ser lys lys asp asn
 661/221
 CGA GGA AAC CTG CTC CAG TGC ATC TCC ACA GGC AAC GGC CGA CGA GAG TGG AAG TGT CAG
 arg gly asn leu leu gln cys ile cys thr gly asn gly arg gly glu trp lys cys glu
 721/241
 AGG CAC ACC TCT GTG CAG ACC ACA TCG AGC GGA TCT GGC CCC TTC ACC GAT GTT CGT
 arg his thr ser val gln thr thr ser ser gly ser gly pro phe thr asp val arg

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Fig. 7



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Fig. 8

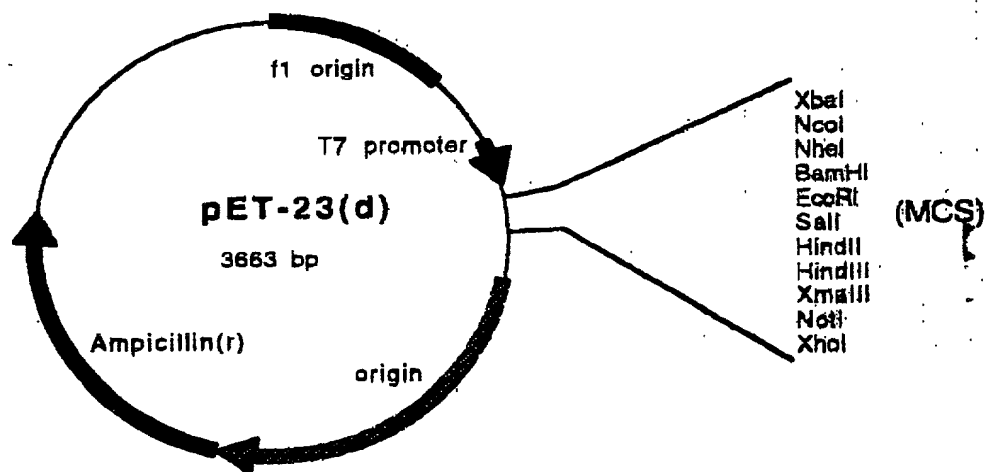


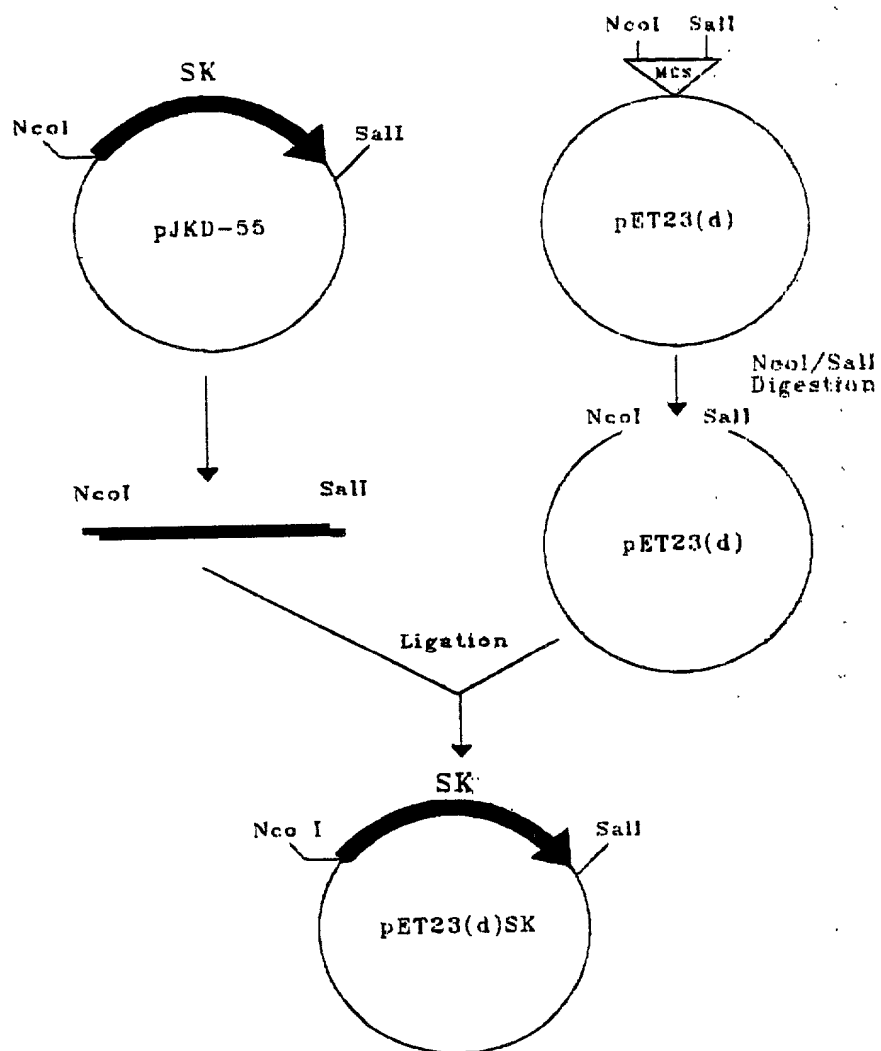
Fig. 9

Fig. 10

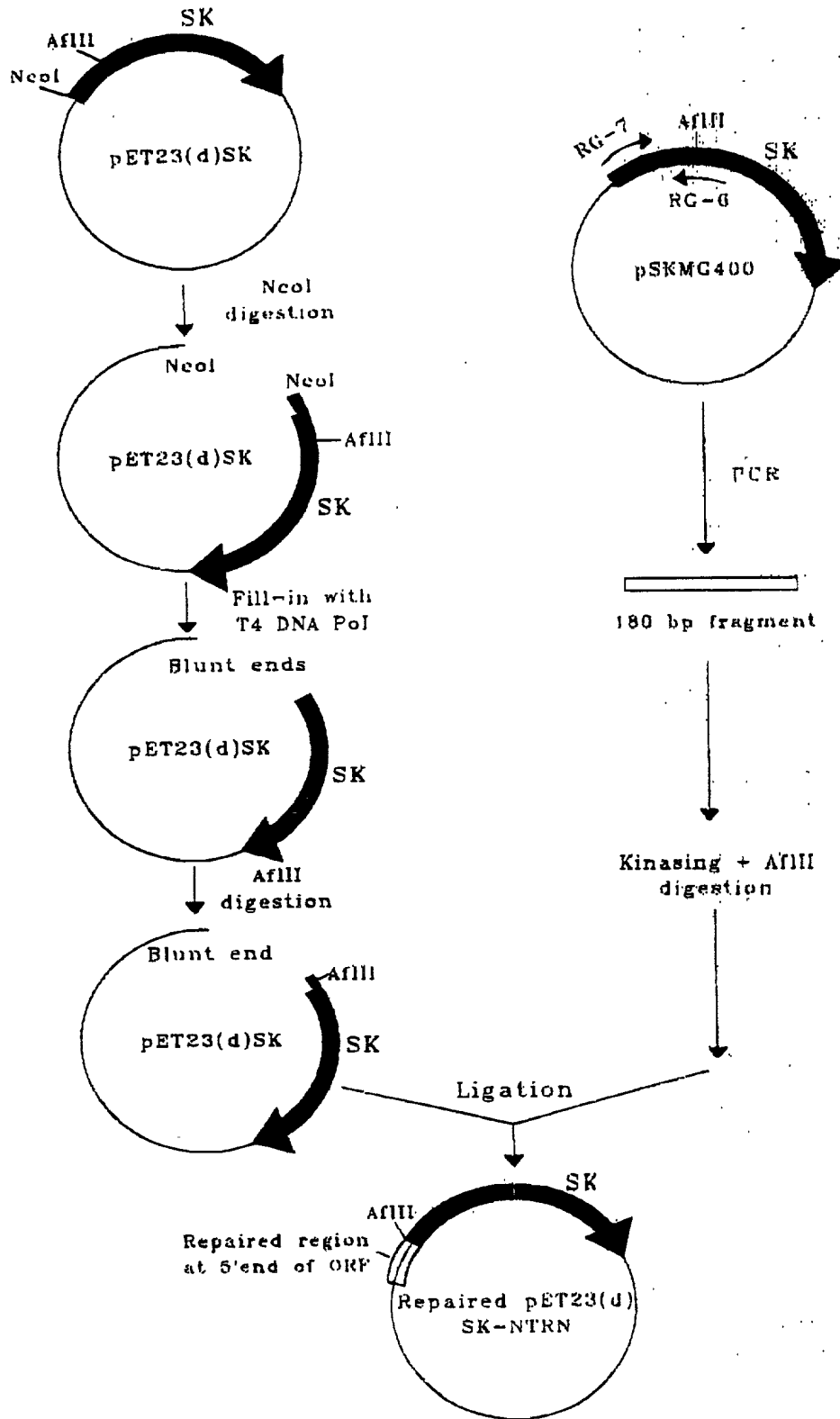


Fig. 11

	10	20	30	40	50
	GCACCCGTGG	CCAGGACCCA	ACGCTGCCCG	AGATCTCGAT	CCCGCGAAAT
51	TAATACGACT	CACTATAGGG	AGACCACAAC	GGTTTCCCTC	TAGAAATAAT
101	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGATTGCTGG	ACCTGAGTGG
151	CTGCTAGACC	GTCCATCTGT	CAACAACAGC	CAATTGGTTG	TTAGCGTTGC
201	TGGTACTGTT	GAGGGGACGA	ATCAAGACAT	TAGTCTTAAA	TTTTTTGAAA
251	TCGATCTAAC	ATCACGACCT	GCTCATGGAG	GAAAGACAGA	GCAAGGCTTA
301	AGTCCAAAAT	CAAAACCA'IT	TGCTACTGAT	AGTGGCGCGA	TGTCAATAAA
351	ACTTGAGAAA	GCTGACTTAC	TAAAGGCTAT	TCAAGAACAA	TTGATCGCTA
401	ACGTCCACAG	TAACGACGAC	TACTTTGAGG	TCATTGATTT	TGCAAGCGAT
451	GCAACCATTA	CTGATCGAAA	CGGCAAGGTC	TACTTTGCTG	ACAAAQATGG
501	TTCGGTAACC	TTGCCGACCC	AACCTGTCCA	AGAATTTTTG	CTAAGCGGAC
551	ATGTGCGCGT	TAGACCATAT	AAAGAAAAAC	CAATACAAAA	CCAAGCGAAA
601	TCTGTTGATG	TGGAATATAC	TGTACAGTTT	ACTCCCTTAA	ACCCTGATGA
651	CGATTTGAGA	CCAGGTCTCA	AAGATACTAA	GCTATTGAAA	ACACTAGCTA
701	TCGGTGACAC	CATCACATCT	CAAGAATTAC	TAGCTCAAGC	ACAAAGCATT
751	TTAAACAAAA	ACCACCCAGG	CTATACGATT	TATGAACGTG	ACTCCTCAAT
801	CGTCACTCAT	GACAA'GACA	TTTTCCGTAC	GATTTTACCA	ATGGATCAAG
851	AGTTTACTTA	CCGTGTTAAA	AATCGGGAAC	AAGCTTATAG	GATCAATAAA
901	AAATCTGGTC	TGAATGAAGA	AATAACAAC	ACTGACCTGA	TCTCTGAGAA
951	ATATTACGTC	CTTAAAAAAG	GGGAAAAGCC	GTATGATCCC	TTTGATCGCA
1001	GTCAC TTGAA	ACTGTTCAAC	ATCAAATACG	TTGATGTGGA	TACCAACGAA
1051	TTGCTAAAAA	GTGAGCAGCT	CTTAACAGCT	AGCGAACGTA	ACTTAGACTT
1101	CAGAGATTTA	TACGATCCTC	GTGATAAGGC	TAAACTACTC	TACAACAATC
1151	TCGATGCTTT	TGGTATTATG	GACTATACTT	TAAC TGGA AA	AGTAGAGGAT
1201	AATCACGATG	ACACCAACCG	TATCATAACC	GT'TATATGG	GCAAGCGACC
1251	CGAAGGAGAG	AACTGCTAGCT	ATCATTTAGC	CTATGATAAA	GATCGTTATA
1301	CCGAAGAAGA	ACGAGAAGTT	TACAGCTACC	TGCGTTATAC	AGGGACACCT
1351	ATACCTGATA	ACCCTAACGA	CAAATAA		

Fig. 12

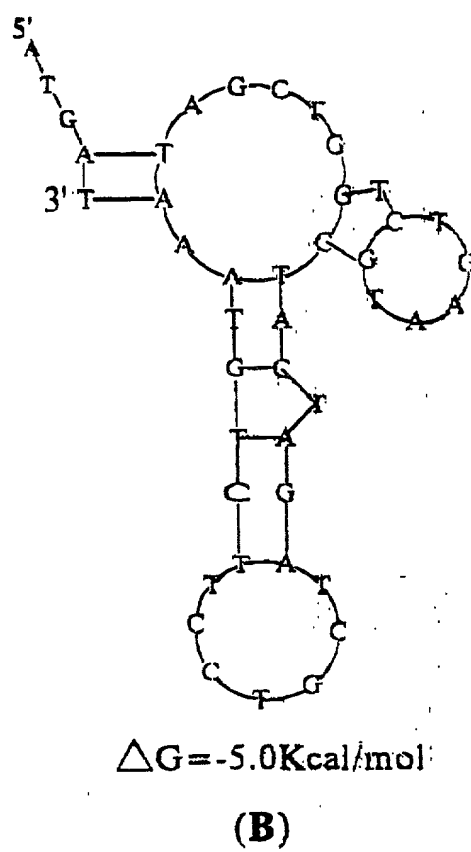
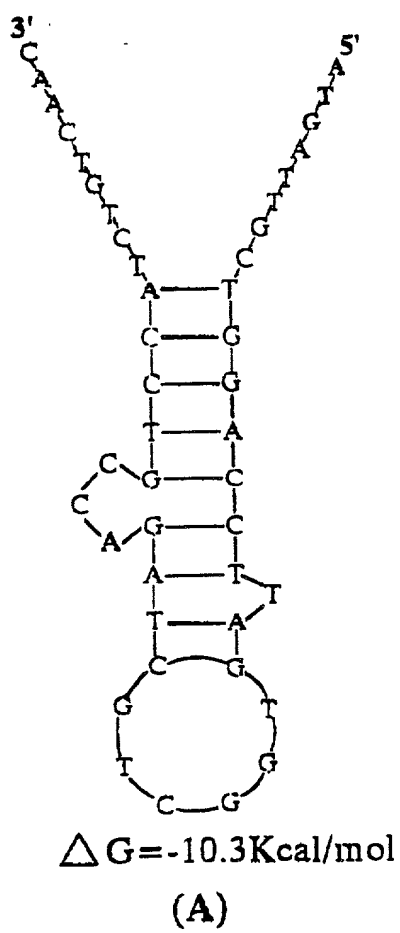


Fig. 13

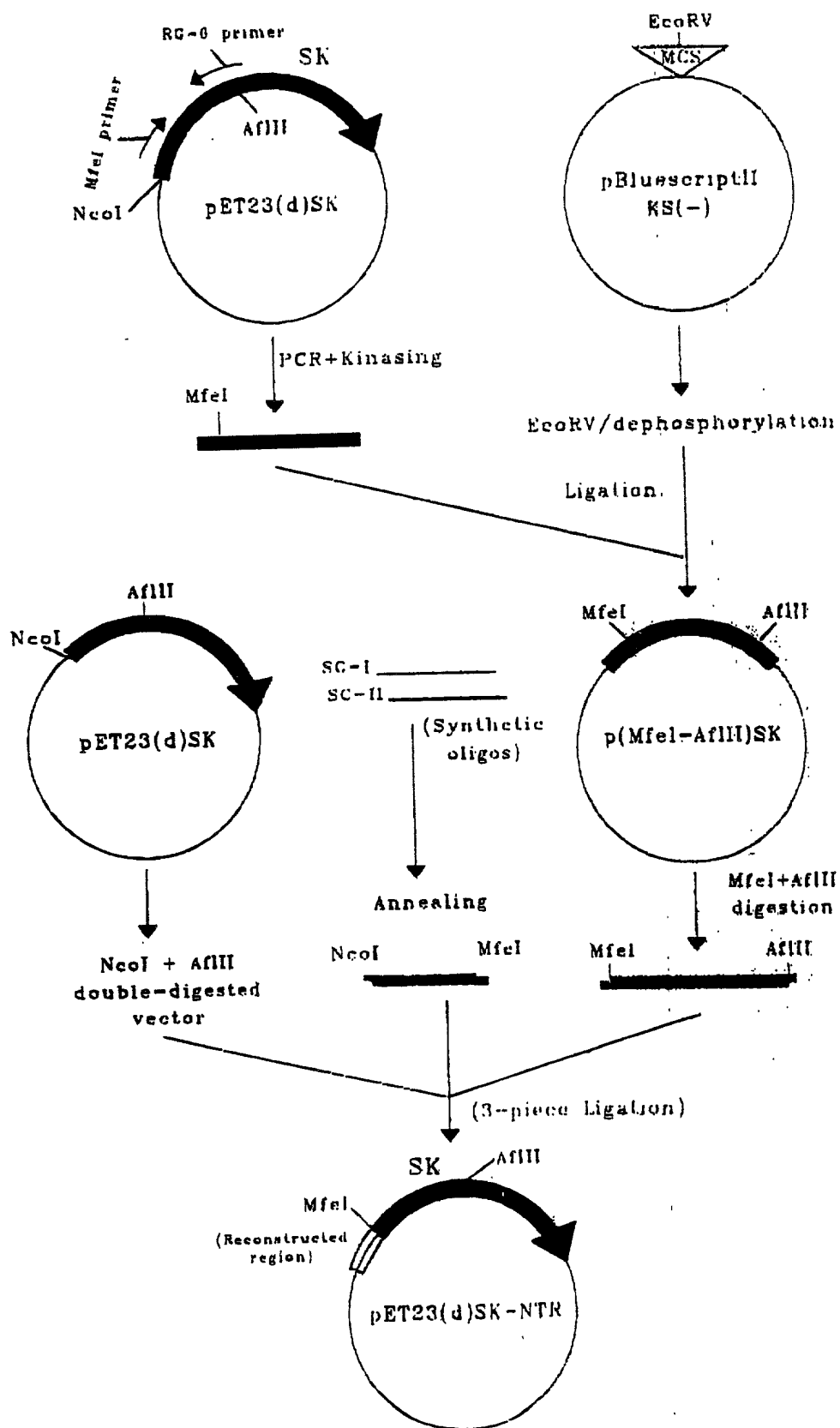


Fig. 14

	10	20	30	40	50
51	TAATACGACT	CACTATAGGG	AGACCACAAC	GGTTTCCCTC	TAGAAATAAT
101	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGATAGCTGG	TCCTGAATGG
151	CTACTAGATC	GTCCTTCTGT	AAATAACAGC	CAATTGGTTG	TTAGCGTTGC
201	TGGTACTGTT	GAGGGGACGA	ATCAAGACAT	TAGTCITAAA	TTTTTTGAAA
251	TCGATCTAAC	ATCACGACCT	GCTCATGGAG	GAAAGACAGA	GCAAGGCTTA
301	AGTCCAAAAT	CAAAACCATT	TGCTACTGAT	AGTGGCGCGA	TGTCACATAA
351	ACTTGAGAAA	GCTGACTTAC	TAAAGGCTAT	TCAAGAACAA	TTGATCGCTA
401	ACGTCCACAG	TAACGACGAC	TACTTTGAGG	TCATTGATTT	TGCAAGCGAT
451	GCAACCATTA	CTGATCGAAA	CGGCAAGGTC	TACTTTGCTG	ACAAAGATGG
501	TTCGGTAACC	TTGCCGACCC	AACCTGTCCA	AGAATTTTGG	CTAAGCGGAC
551	ATGTGCGCGT	TAGACCATAT	AAAGAAAAAC	CAATACAAAA	CCAAGCGAAA
601	TCTGTTGATG	TGGAATATAC	TGTACAGTTT	ACTCCCTTAA	ACCCTGATGA
651	CGATTTTACA	CCAGGTCTCA	AAGATACTAA	GCTATTGAAA	ACACTAGCTA
701	TCGGTGACAC	CATCACATCT	CAAGAATTAC	TAGCTCAAGC	ACAAAGCATT
751	TTAAACAAAA	ACCACCCAGG	CTATACGATT	TATGAACGTG	ACTCCTCAAT
801	CGTCACTCAT	GACAATGACA	TTT TCCGTAC	GATTTTACCA	ATGGATCAAG
851	AGTTTACTTA	CCGTGTTAAA	AATCGGGAAC	AAGCTTATAG	GATCAATAAA
901	AAATCTGGTC	TGAATGAAGA	AATAACAAC	ACTGACCTGA	TCTCTGAGAA
951	ATATTACGTC	CTTAAAAAAG	GGGAAAAGCC	GTATGATCCC	TTEGATCGCA
1001	GTCACCTGAA	ACTGTTTACC	ATCAAATACG	TTGATGTCGA	TACCAACGAA
1051	TTGCTAAAAA	GTGAGCAGCT	CTTAACAGCT	AGCGAACGTA	ACTTAGACTT
1101	CAGAGATTTA	TACGATCCTC	GTGATAAGGC	TAAACTACTC	TACAACAATC
1151	TCGATGCTTT	TGGTATTATG	GACTATACCT	TAACTGGAAA	AGTAGAGGAT
1201	AATCACGATG	ACACCAACCG	TATCATAACC	GTTTATATGG	GCAAGCGACC
1251	CGAAGGAGAG	AATGCTAGCT	ATCATTTAGC	CTATGATAAA	GATCGTTATA
1301	CCGAAGAAGA	ACGAGAAGTT	TACAGCTACC	TGCGTTATAC	AGGGACACCT
	ATACCTGATA	ACCCTAACGA	CAAATAA		

P. 0200 00000000

Fig. 15

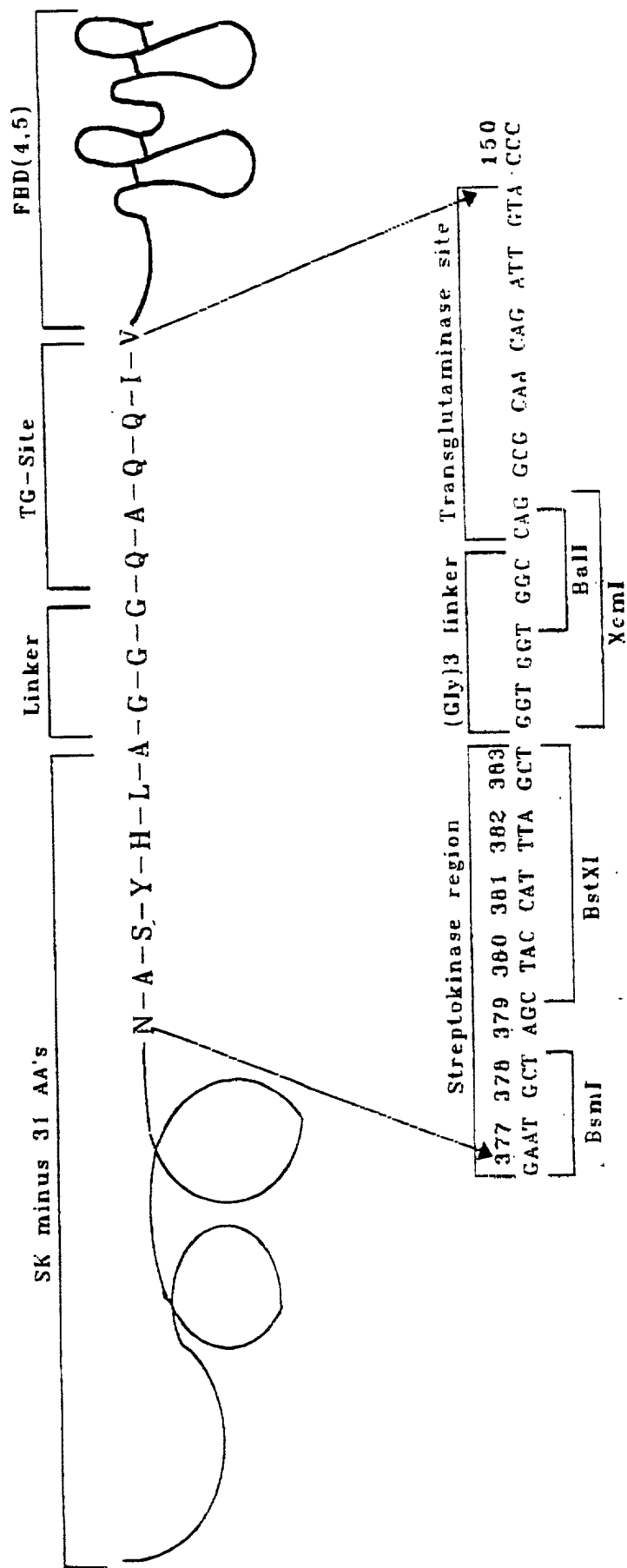


Fig. 16

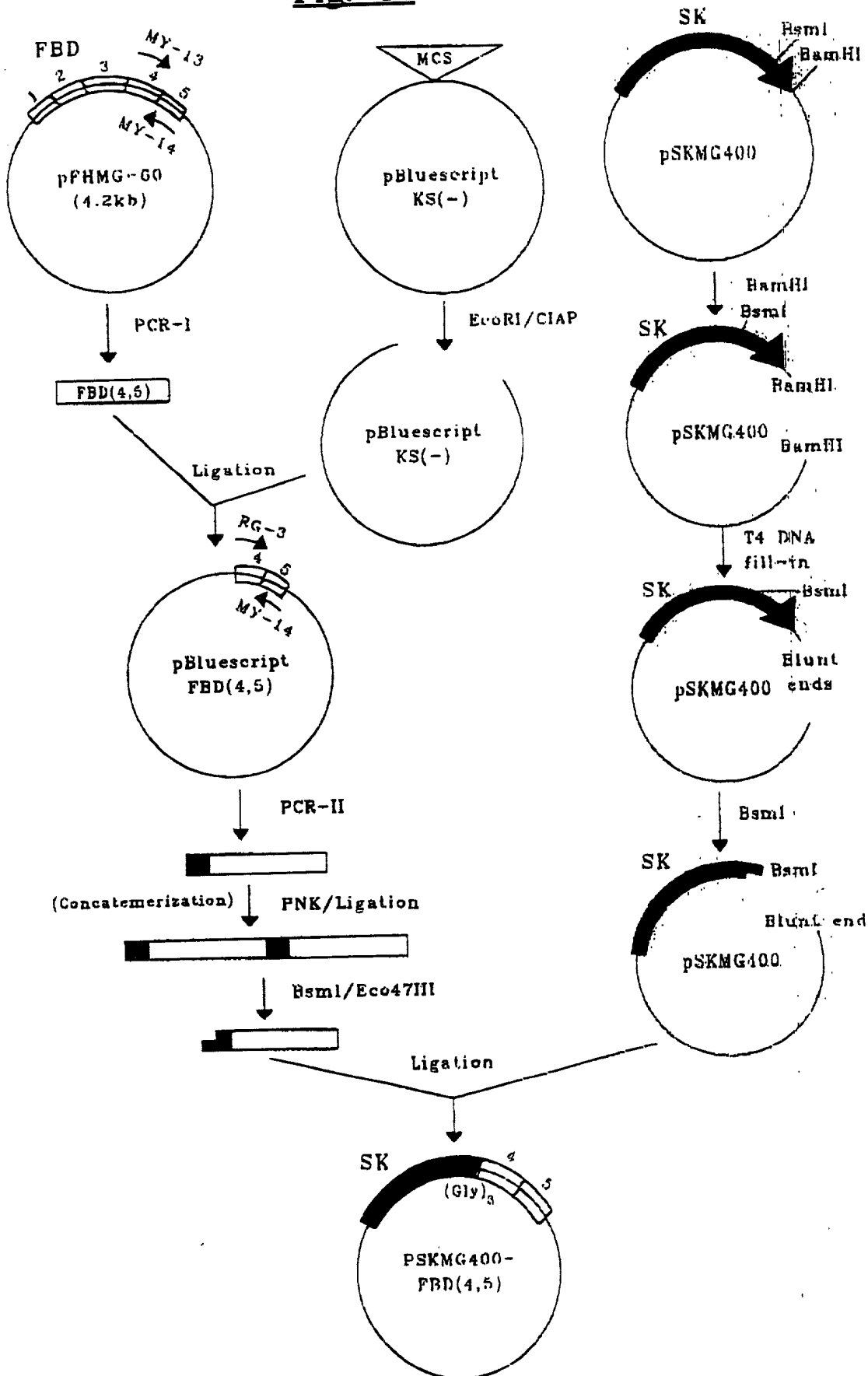


Fig. 17a

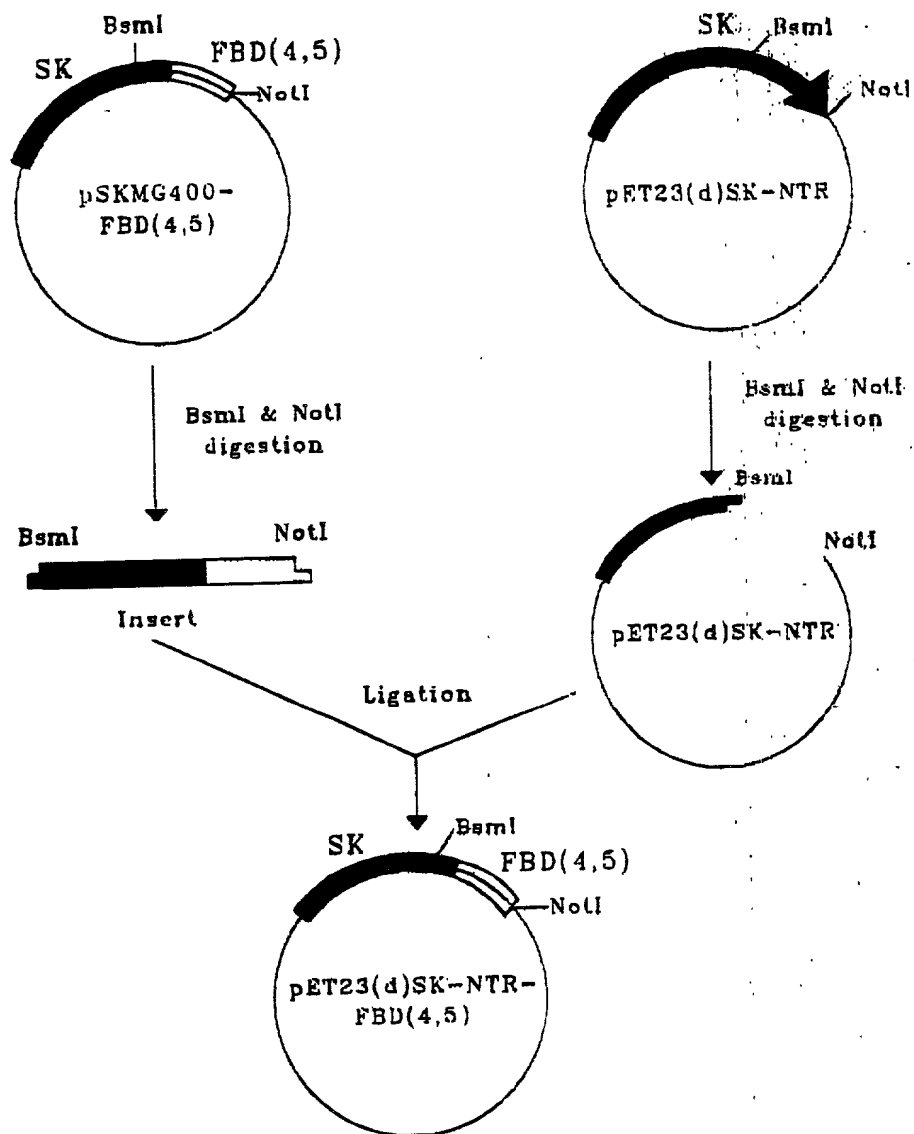


Fig. 17b

	10	20	30	40	50
	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGATAGCTGG	TCTTGAATGG
51	CTACTAGATC	GTCCTTCTGT	AAATAACAGC	CAATTGGTTG	TTAGCGTTGC
101	TGGTACTGTT	GAGGGGACGA	ATCAAGACAT	TAGTCTTAAA	TTTTTTGAAA
151	TCGATCTAAC	ATCACGACCT	GCTCATGGAG	GAAAGACAGA	GCAAGGCTTA
201	AGTCCAAAAT	CAAAACCATT	TGCTACTGAT	AGTGGCGCGA	TGTCACATAA
251	ACTTGAGAAA	GCTGACTTAC	TAAAGGCTAT	TCAAGAACAA	TTGATCGCTA
301	ACGTCCACAG	TAACGACGAC	TACTTTGAGG	TCATTGATTT	TGCAAGCGAT
351	GCAACCATTA	CTGATCGAAA	CGGCAAGGTC	TACTTTGCTG	ACAAAGATGG
401	FTCGGTAACC	TTGCCGACCC	AACCTGTCCA	AGAATTTTGT	CTAAGCGGAC
451	ATGTGCGCGT	TAGACCATAT	AAAGAAAAAC	CAATACAAAA	CCAAGCGAAA
501	TCTGTTGATG	TGGAATATAC	TGTACAGTTT	ACTCCCTTAA	ACCCTGATGA
551	CGATTTCAGA	CCAGGTCTCA	AAGATACTAA	GCTATTGAAA	ACACTAGETA
601	TCGGTGACAC	CATCACATCT	CAAGAATTAC	TAGCTCAAGC	ACAAAGCAIT
651	TAAACAAAA	ACCACCCAGG	CTATACGATT	TATGAACGTG	ACTCCTCAAT
701	CGTCACTCAT	GACAATGACA	TTTTCCGTAC	GATTTTACCA	ATGGATCAAG
751	AGTTTACTTA	CCGTGTTAAA	AATCGGGAAC	AAGCTTATAG	GATCAATAAA
801	AAATCTGGTC	TGAATGAAGA	AATAAACAAAC	ACTGACCTGA	TCTCTGAGAA
851	ATATTACGTC	CTTAAAAAAG	GGGAAAAGCC	GTATGATCCC	TTTGATCGCA
901	GTCACCTGAA	ACTGTTCAAC	ATCAAATACG	TTGATGTCGA	TACCAACGAA
951	TTGCTAAAAA	GTGAGCAGCT	CTTAACAGCT	AGCGAACGTA	ACTTAGACTT
1001	CAGAGATTTA	TACGATCCTC	GTGATAAGGC	TAAACTACTC	TACAACAATC
1051	TCGATGCTTT	TGGTATTATG	GACTATACCT	TAACTGGAAA	AGTAGAGGAT
1101	AATCACGATG	ACACCAACCG	TATCATAACC	GTTTATATGG	GCAAGCGACC
1151	CGAAGGAGAG	AATGCTAGCT	ACCATTTAGC	TGGTGGTGGC	CAGGCGCAAC
1201	AGATTGTACC	CATAGCTGAG	AAGTGTTTTG	ATCATGCTGC	TGGGACTTCC
1251	TATGTGGTCG	GAGAAACGTG	GGAGAAAGCCC	TACCAAGGCT	GGATGATGGT
1301	AGATTGTACT	TGCCTGGGAG	AAGGCAGCGG	ACGCATCACT	TGCACTTCTA
1351	GAAATAGATG	CAACGATCAG	GACACAAGGA	CATCCTATAG	AATTGGAGAC
1401	ACCTGGAGCA	AGAAGGATAA	TCGAGGAAAC	CTGCTCCAGT	GCATCTGCAC
1451	AGGCAACGGC	CGAGGAGAGT	GGAAGTGTGA	GAGGCACACC	TCTGTGCAGA
1501	CCACATCGAG	CGGATCTGGC	CCCTTCACCG	ATGTTCTGTA	G

Fig. 18

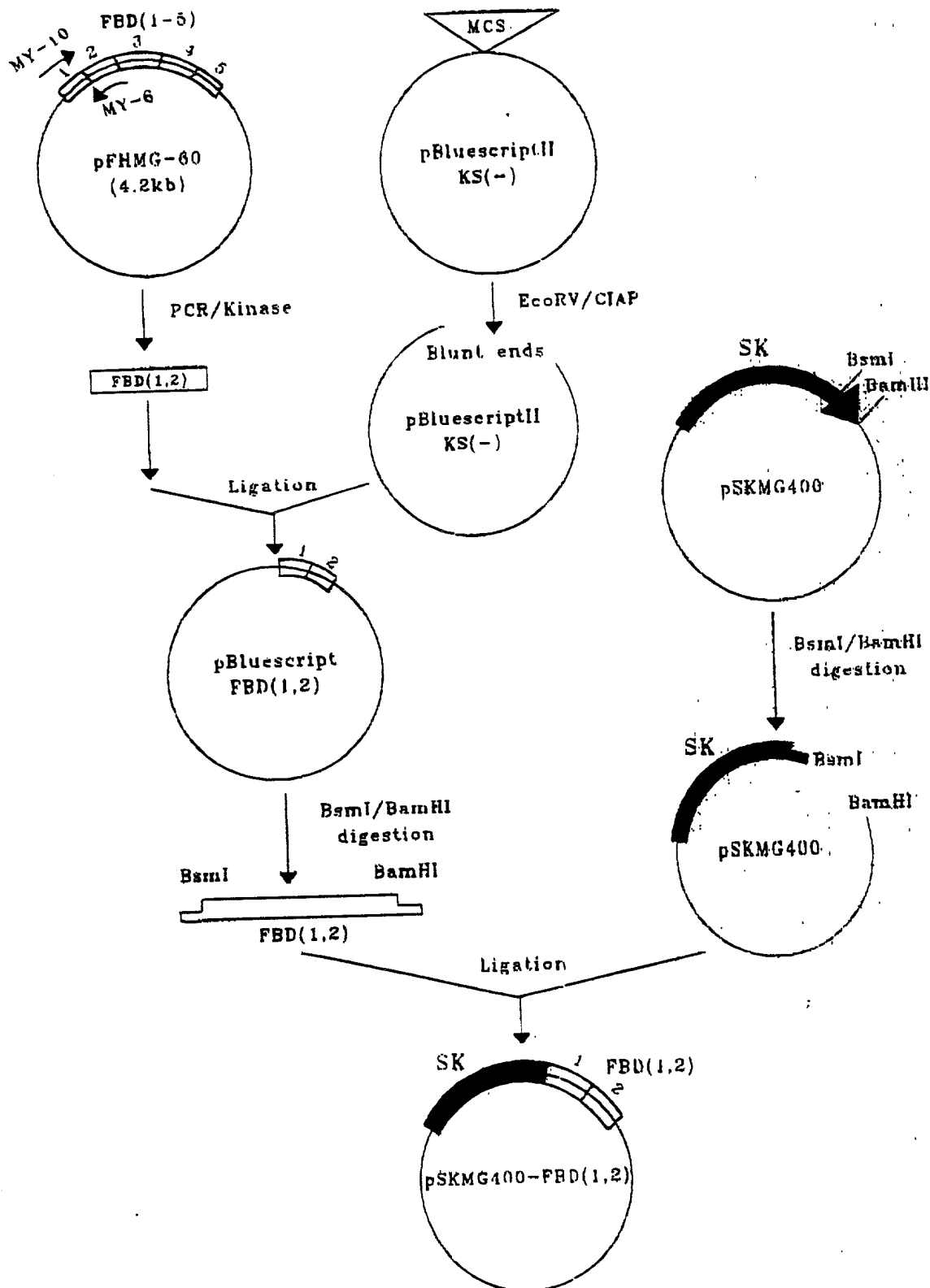
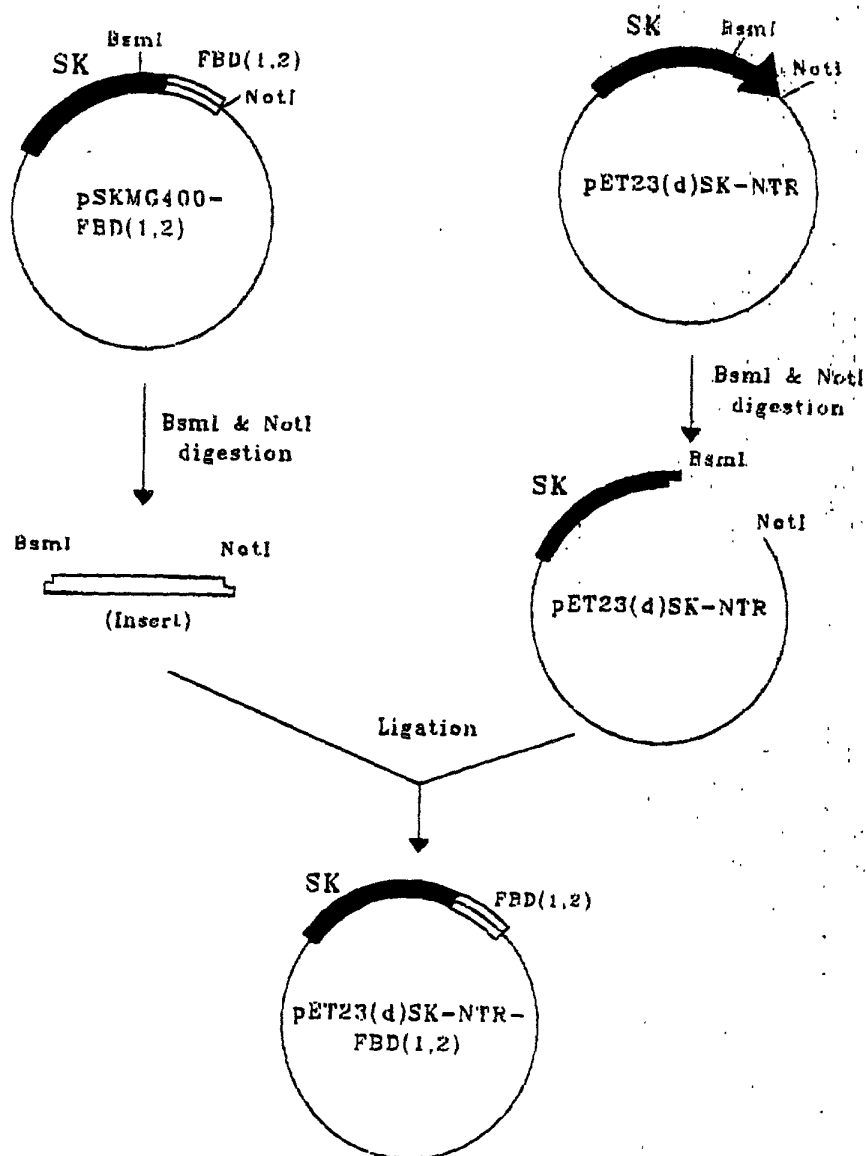


Fig. 19a

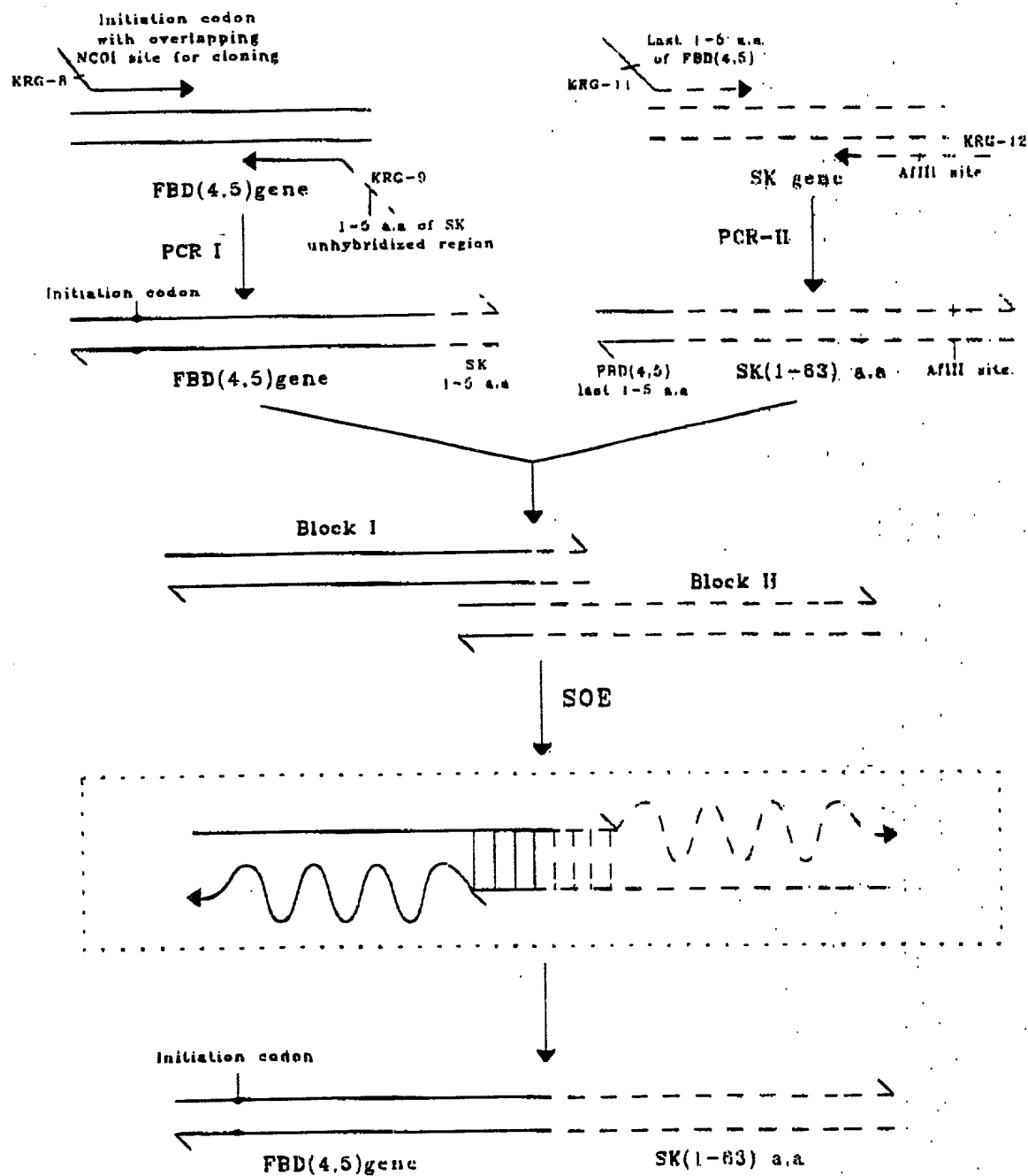


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Fig. 19b

	10	20	30	40	50
51	GCAACCCCGC	CAGCCTAGCC	GGGTCCTCAA	CGACAGGAGC	ACGATCATGC
101	GCACCCGTGG	CCAGGACCCA	ACGCTGCCCG	AGATCTCGAT	CCCGCGAAAT
151	TAATACGACT	CACTATAGGG	AGACCACAAC	GOTTTCCCTC	TAGAAATAAT
201	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGATTGCTGG	ACCTGAGTGG
251	CTGCTAGACC	GTCCATCTGT	CAACAACAGC	CAATTGGTTG	TTAGCGTTGC
301	TGGTACTGTT	GAGGGGACGA	ATCAAGACAT	TAGTCTTAAA	TTTTTTGAAA
351	TCGATCTAAC	ATCACGACCT	GCTCATGGAG	GAAAGACAGA	GCAAGGCTTA
401	AGTCCAAAAT	CAAAACCATT	TGCTACTGAT	AGTGGCGCGA	TGTCACATAA
451	ACTTGAGAAA	GCTGACTTAC	TAAAGGCTAT	TCAAGAACAA	TTGATCGCTA
501	ACGTCCACAG	TAACGACGAC	TACTTTGAGG	TCATTGATTT	TGCAAGCGAT
551	GCAACCATTA	CTGATCGAAA	CGGCAAGGTC	TACTTTGCTG	ACAAAGATGG
601	TTCGGTAACC	TTGCCGACCC	AACCTGTCCA	AGAATTTTGT	CTAAGCGGAC
651	ATGTGCGCGT	TAGACCATAT	AAAGAAAAAC	CAATACAAAA	CCAAGCGAAA
701	TCTGTTGATG	TGGAATATAC	TGTACAGTTT	ACTCCCTTAA	ACCCTGATGA
751	CGATTTTACA	CCAGGTCTCA	AAGATACTAA	GCTATTGAAA	ACACTAGCTA
801	TCGGTGACAC	CATCACATCT	CAAGAATTAC	TAGCTCAAGC	ACAAAGCATT
851	TTAAACAAAA	ACCACCCAGG	CTATACGATT	TATGAACGTG	ACTECTCAAT
901	CGTCACTCAT	GACAATGACA	TTTTCCGTAC	GATTTTACCA	ATGGATCAAG
951	AGTTTACTTA	CCGTGTTAAA	AATCGGGAAC	AAGCTTATAG	GATCAATAAA
1001	AAATCTGGTC	TGAATGAAGA	AATAAAACAAC	ACTGACCTGA	TCTCTGAGAA
1051	ATATTACGTC	CTTAAAAAAG	GGGAAAAGCC	GTATGATCCC	TTTGATCGCA
1101	GTCACCTGAA	ACTGTTTACC	ATCAAATACG	TTGATGTGCA	TACCAACGAA
1151	TTGCTAAAAA	GTGAGCAGCT	CTTAACAGCT	AGCGAACGTA	ACTTAGACTT
1201	CAGAGATTTA	TACGATCCTC	GTGATAAGGC	TAAACTACTC	TACAACAATC
1251	TCGATGCTTT	TGGTATTATG	GACTATACCT	TAACTGGAAA	AGTAGAGGAT
1301	AATCACGATG	ACACCAACCG	TATCATAACC	GTTTATATGG	GCAAGCGACC
1351	CGAAGGAGAG	AATGCTAGCT	ATCATTTAGC	CGGTGGTGGT	CAGGCGCAGC
1401	AAATGGTTCA	GCCCCAGTCC	CCGGTGGCTG	TCAGTCAAAG	CAAGCCCGGT
1451	TGTTATGACA	ATGGAAAACA	CTATCAGATA	AATCAACAGT	GGGAGCGGAC
1501	CTACCTAGGT	AATGTGTTGG	TTTGTACTTG	TTATGGAGGA	AGCCGAGGTT
1551	TTAACTGCGA	AAGTAAACCT	GAAGCTGAAG	AGACTTGCTT	TGACAAGTAC
1601	ACTGGGAACA	CTTACCGAGT	GGGTGACACT	TATGAGCGTC	CTAAAGACTC
1651	CATGATCTGG	GACTGTACCT	GCATCGGGGC	TGGGCGAGGG	AGAATAAGCT
	GTACCATCTA	A			

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Fig. 20

Recombinant Product

Fig. 21a

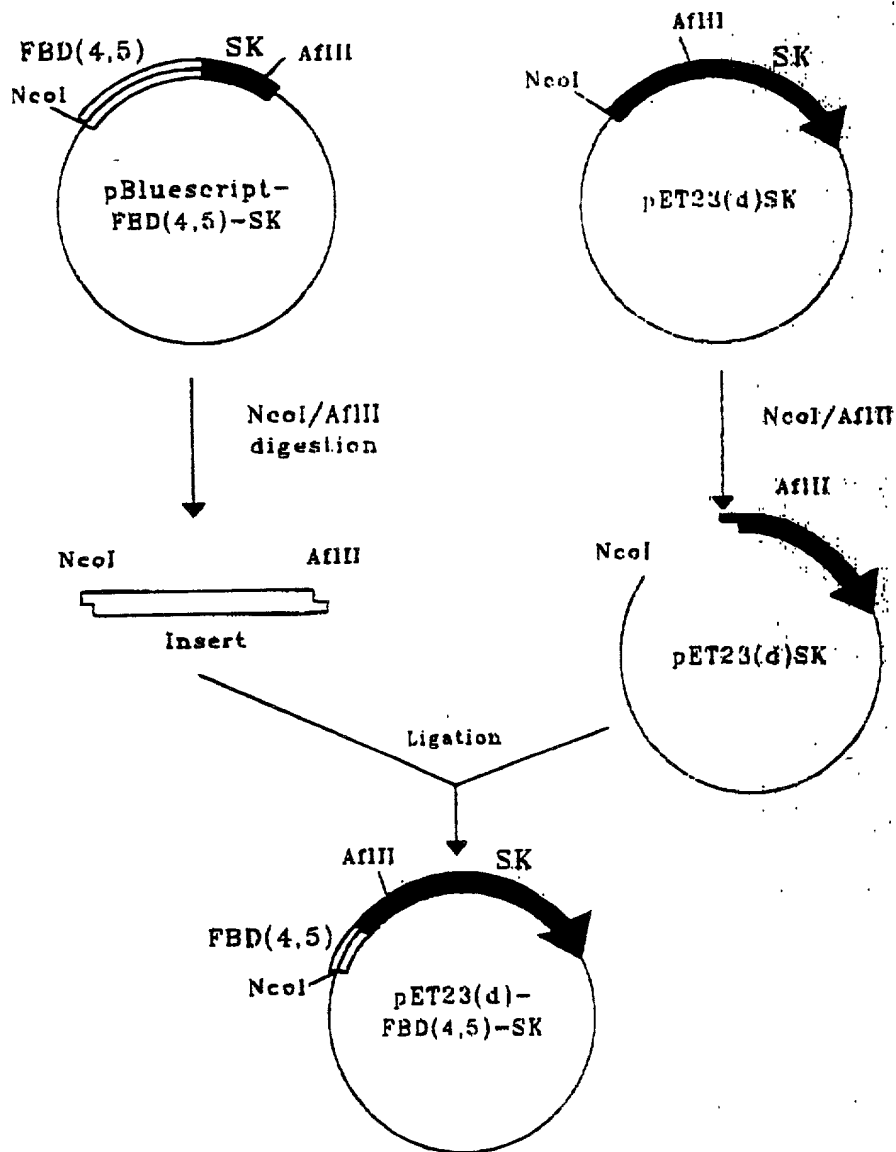


Fig. 21b

	10	20	30	40	50
1	TCGCTTCACG	TTCGCTCGCG	TATCGGTGAT	TCATTCTGCT	AACCAGTAAG
51	GCAACCCCGC	CAGCCTAGCC	GGGTCCTCAA	CGACAGGAGC	ACGATCATGC
101	GCACCCGTGG	CCAGGACCCA	ACGCTGCCCC	AGATCTCGAT	CCCGCGAAAT
151	TAATACGACT	CACTATAGGG	AGACCACAAC	GGTTTCCCTC	TAGAAATAAT
201	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGGTGCAAGC	ACAACAGATT
251	GTACCCATAG	CTGAGAAGTG	TTTGATCAT	GCTGCTGGGA	CTTCCTATGT
301	GGTCGGAGAA	ACGTGGGAGA	AGGCAGCGGA	CGCATCACTT	GCACTTCTAG
351	AAATAGATGC	AACGATCAGG	ACACAAGGAC	ATCCTATAGA	ATTGGAGACA
401	CCTGGAGCAA	GAAGGATAAT	CGAGGAAACC	TGCTCCAGTG	CATCTGCACA
451	GGCAACGGCC	GAGGAGAGTG	GAAGTGTGAG	AGGCACACCT	CTGTGCAGAC
501	CACATCGAGC	GGATCTGGCC	CCTTCACCGA	TGTTTCGTATT	GCTGGACCTG
551	AGTGGCTGCT	AGACCGTCCA	TCTGTCAACA	ACAGCCAATT	GGTTGTTAGC
601	GTTGCTGGTA	CTGTTGAGGG	GACGAATCAA	GACATTAGTC	TTAAATTTTT
651	TGAAATCGAT	CTAACATCAC	GACCTGCTCA	TGGAGGAAAG	ACAGAGCAAG
701	GCTTAAGTCC	AAAATCAAAA	CCATTTGCTA	CTGATAGTGG	CGCGATGTCA
751	CATAAACTTG	AGAAAGCTGA	CTTACTAAAG	GCTATTCAAG	AACAATTGAT
801	CGCTAACGTC	CACAGTAACG	ACGACTACTT	TGAGGTCATT	GATTTTGCAA
851	GCGATGCAAC	CATTACTGAT	CGAAACGGCA	AGGTCTACTT	TGCTGACAAA
901	GATGGTTCGG	TAACCTTGCC	GACCCAACCT	GTCCAAGAAT	TTTTGCTAAG
951	CGGACATGTG	CGCGTTAGAC	CATATAAAGA	AAAACCAATA	CAAAACCAAG
1001	CGAAATCTGT	TGATGTGGAA	TATACTGTAC	AGTTTACTCC	CTTAAACCCT
1051	GATGACGATT	TCAGACCAGG	TCTCAAAGAT	ACTAAGCTAT	TGAAAACACT
1101	AGCTATCGGT	GACACCATCA	CATCTCAAGA	ATTACTAGCT	CAAGCACAAA
1151	GCATTTTAAA	CAAAAACCAC	CCAGGCTATA	CGATTTATGA	ACGTGACTCC
1201	TCAATCGTCA	CTCATGACAA	TGACATTTTC	CGTACGATTT	TACCAATGGA
1251	TCAAGAGTTT	ACTTACCGTG	TTAAAAATCG	GGAACAAGCT	TATAGGATCA
1301	ATAAAAAATC	TGGTCTGAAT	GAAGAAATAA	ACAACACTGA	CCTGATCTCT
1351	GAGAAATATT	ACGTCCTTAA	AAAAGGGGAA	AAGCCGTATG	ATCCCTTTGA
1401	TCGCAGTCAC	TTGAAACTGT	TCACCATCAA	ATACGTTGAT	GTCGATACCA
1451	ACGAATTGCT	AAAAAGTGAG	CAGCTCTTAA	CAGCTAGCGA	ACGTAACCTA
1501	GACTTCAGAG	ATTTATACGA	TCCTCGTGAT	AAGGCTAAAC	TACTCTACAA
1551	CAATCTCGAT	GCTTTTGGTA	TTATGGACTA	TACCTTAACT	GGAAAAGTAG
1601	AGGATAATCA	CGATGACACC	AACCGTATCA	TAACCGTTTA	TATGGGCAAG
1651	CGACCCGAAG	GAGAGAATGC	TAGCTATCAT	TTAGCCTATG	ATAAAGATCC
1701	TTATACCGAA	GAAGAACGAG	AAGTTTACAG	CTACCTGCGT	TATACAGGGA
1751	CACCTATACC	TGATAACCCT	AACGACAAAT	AA	

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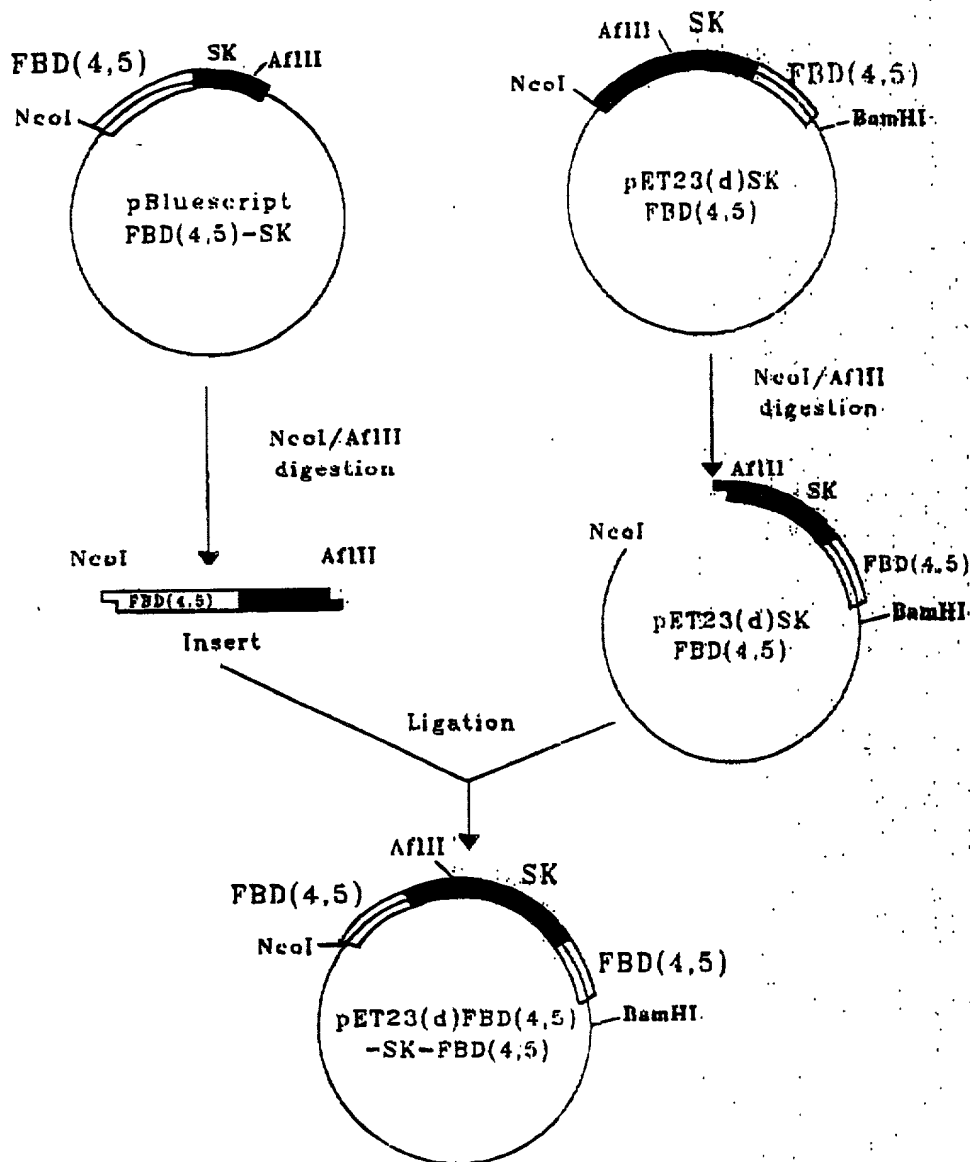
Fig. 22a

Fig. 22b

	10	20	30	40	50
1	CGAAGACCAT	TCATGTTGTT	GCTCAGGTCG	CAGACGTTTT	GCAGCAGCAG
51	TCGCTTCACG	TTCGCTCGCG	TATCGGTGAT	TCATTCTGCT	AACCAGTAAG
101	GCAACCCCGC	CAGCCTAGCC	GGGTCTCAA	CGACAGGAGC	ACGATCATGC
151	GCACCCGTGG	CCAGGACCCA	ACGCTGCCCC	AGATCTCGAT	CCCGCGAAAT
201	TAATACGACT	CACTATAGGG	AGACCACAAC	GGTTTCCCTC	TAGAAATAAT
251	TTTGTTTAAC	TTTAAGAAGG	AGATATACCA	TGGTGCAAGC	ACAACAGATT
301	GTACCCATAG	CTGAGAAGTG	TTTTGATCAT	GCTGCTGGGA	CTTCCTATGT
351	GGTCGGAGAA	ACGTGGGAGA	AGGCAGCGGA	CGCATCACTT	GCACCTCTAG
401	AAATAGATGC	AACGATCAGG	ACACAAGGAC	ATCCTATAGA	ATTGGAGAGA
451	CCTGGAGCAA	GAAGGATAAT	CGAGGAAACC	TGCTCCAGTG	CATCTGCACA
501	GGCAACGGCC	GAGGAGAGTG	GAAGTGTGAG	AGGCACACCT	CTGTGCAGAC
551	CACATCGAGC	GGATCTGGCC	CCTTCACCGA	TGTTCTGATT	GCTGGACCTG
601	AGTGGCTGCT	AGACCGTCCA	TCTGTCAACA	ACAGCCAATT	GGTTGTTAGC
651	GTTGCTGGTA	CTGTTGAGGG	GACGAATCAA	GACATTAGTC	TTAAATTTTT
701	TGAAATCGAT	CTAACATCAC	GACCTGCTCA	TGGAGGAAAG	ACAGAGCAAG
751	GCTTAAGTCC	AAAATCAAAA	CCATTTGCTA	CTGATAGTGG	CGCGATGTCA
801	CATAAACTTG	AGAAAGCTGA	CTTACTAAAG	GCTATTCAAG	AACAATTGAT
851	CGCTAACGTC	CACAGTAACG	ACGACTACTT	TGAGGTCAAT	GATTTTGCAA
901	GCGATGCAAC	CATTACTGAT	CGAAACGGCA	AGGTCTACTT	TGCTGACAAA
951	GATGGTTCGG	TAACCTTGCC	GACCCAACCT	GTCCAAGAAT	TTTTGCTAAG
1001	CGGACATGTG	CGCGTTAGAC	CATATAAAGA	AAAACCAATA	CAAAACCAAG
1051	CGAAATCTGT	TGATGTGGAA	TATACTGTAC	AGTTTACTCC	CTTAAACCTT
1101	GATGACGATT	TCAGACCAGG	TCTCAAAGAT	ACTAAGCTAT	TGAAAACAET
1151	AGCTATCGGT	GACACCATCA	CATCTCAAGA	ATTACTAGCT	CAAGCACAAA
1201	GCATTTTAAA	CAAAAACCAC	CCAGGCTATA	CGATTTATGA	ACGTGAETCC
1251	TCAATCGTCA	CTCATGACAA	TGACATTTTC	CGTACGATTT	TACCAATGGA
1301	TCAAGAGTTT	ACTTACCGTG	TTAAAAATCG	GGAACAAGCT	TATAGGATCA
1351	ATAAAAAATC	TGGTCTGAAT	GAAGAAATAA	ACAACACTGA	CCTGATCTCT
1401	GAGAAATATT	ACGTCTTAA	AAAAGGGGAA	AAGCCGTATG	ATCCCTTTGA
1451	TCGCAGTCAC	TTGAAACTGT	TCACCATCAA	ATACGTTGAT	GTGATACCA
1501	ACGAATTGCT	AAAAAGTGAG	CAGCTCTTAA	CAGCTAGCGA	ACGTAACCTA
1551	GACTTCAGAG	ATTTATACGA	TCCTCGTGAT	AAGGCTAAAC	TACTCTACAA
1601	CAATCTCGAT	GCTTTTGGTA	TTATGGACTA	TACCTTAACT	GGAAAAGTAG
1651	AGGATAATCA	CGATGACACC	AACCGTATCA	TAACCGTTTA	TATGGGCAAG
1701	CGACCCGAAG	GAGAGAATGC	TAGCTACCAT	TTAGCTGGTG	GTGGGCAGGC
1751	GCAACAGATT	GTACCCATAG	CTGAGAAGTG	TTTTGATCAT	GCTGCTGGGA
1801	CTTCCTATGT	GGTCGGAGAA	ACGTGGGAGA	AGCCCTACCA	AGGCTGGATG
1851	ATGGTAGATT	GTAATTGCCT	GGGAGAAGGC	AGCGGACGCA	TCACCTTGCA
1901	TTCTAGAAAT	AGATGCAACG	ATCAGGACAC	AAGGACATCC	TATAGAATTG
1951	GAGACACCTG	GAGCAAGAAG	GATAATCGAG	GAAACCTGCT	CCAGTGCAAT
2001	TGCACAGGCA	ACGGCCGAGG	AGAGTGGAAG	TGTGAGAGGC	ACACCTCTGT
2051	GCAGACCACA	TCGAGCGGAT	CTGGCCCCCT	CACCGATGTT	CGTTAG

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Fig. 23

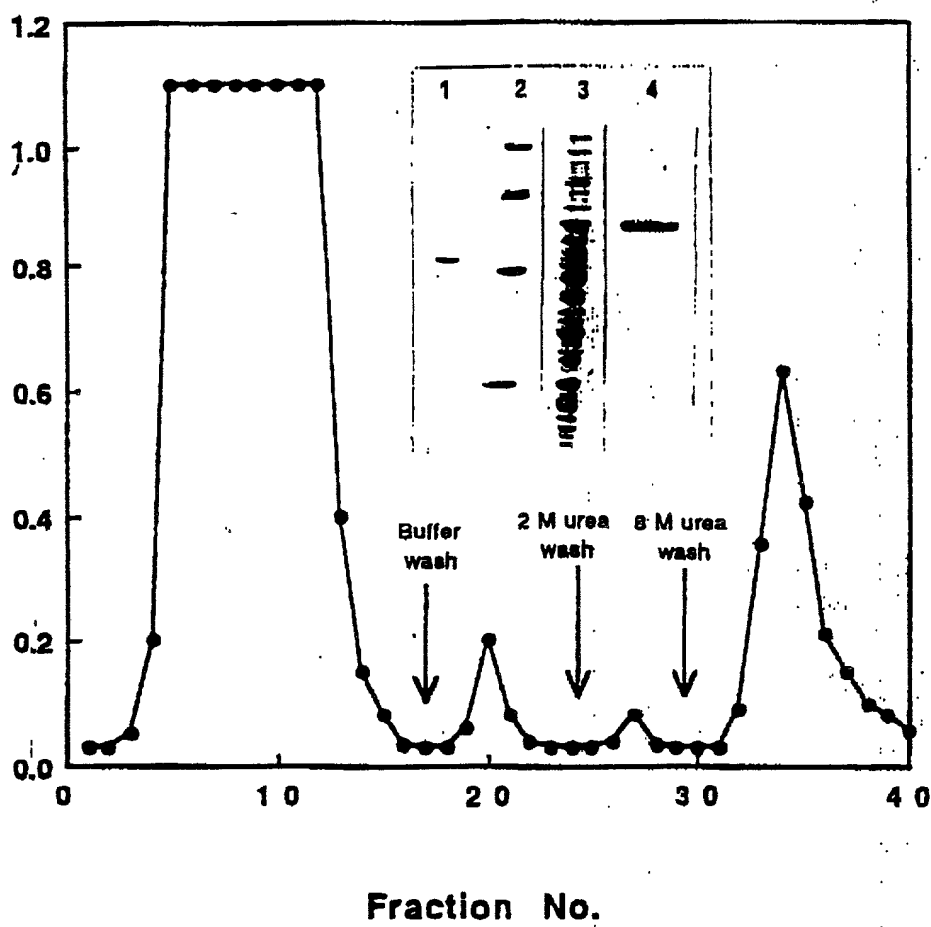


Fig. 24